

# **Safety Data Sheet**

Pasteurella Multocida Toxin Product #156

#### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Pasteurella Multocida Toxin

Product number : 156

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : List Biological Laboratories, Inc.

540 Division Street

Campbell, CA 95008-6906, USA

Telephone : (408) 866-6363

(800) 726-3213

Fax : (408) 866-6364

1.4 Emergency telephone number

24 Hour Emergency : 1 (800) 255-3924 ChemTel Domestic Phone # +1 (813) 248-0585 ChemTel International

ChemTel Customer # : MIS2844833

## 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315 Eye irritation (Category 2), H320

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Warning

Hazard statement(s)

H315 Causes skin irritation. H320 Causes eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use in a well-ventilated area.

P280 Wear protective gloves/ protective clothing.

P301 + P312 + P330 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water

P304 + P340 + P313 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable to breathing. Get medical advice/attention.

SDS for Product #156 Page 1 of 6

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do so. Continue

rinsing.

P321 Specific treatment (see supplemental first aid instructions on this

label).

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

P233 Keep container tightly closed.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Biohazard. Handle as if capable of transmitting infectious agents.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Mixtures

Synonym : Dermonecrotoxin

Component	CAS No.	Percent (%)
Pasteurella Multocida Toxin	N/A	~0.5
Sodium Chloride (NaCl)	7647-14-5	~28
Tris(hydroxymethyl)aminomethane, free base	77-86-1	~29
Tris(hydroxymethyl)aminomethane, hydrochloride salt	1185-53-1	~38
Sucrose	57-50-1	~4.5

### 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

### **General advice**

Move affected person out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Flush eyes with water as a precaution. Consult a physician.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

## 4.3 Indication of any immediate medical attention and special treatment needed

No data available

#### 5. FIREFIGHTING MEASURES

## 5.1 Extinguishing media

### Suitable extinguishing media

Use extinguishing media appropriate to surrounding fire conditions.

### 5.2 Special hazards arising from the substance or mixture

SDS for Product #156 Page 2 of 6

Not flammable or combustible.

### 5.3 Protective equipment and precautions for fire-fighters

Use an approved/certified respirator.

#### 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Wear appropriate laboratory attire including lab coat, gloves and safety glasses. Nitrile gloves are recommended when handling lyophilized material. Avoid formation of dust and aerosols. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust, vapours, mist or gas.

## 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

In case of a spill or a release, take precautions to minimize worker exposure. For spills onto surface areas, the contaminated surface should be thoroughly sprayed or rinsed for at least five minutes with at least a 0.5% sodium hypochlorite solution, then wiped dry. Autoclaving may be applied to contaminated material which is in solution or to which the autoclave steam has access. Autoclaving at ≥121°C, ≥15 psi in a validated cycle will render the product safe.

Hold all material for appropriate disposal as described in Section 13 DISPOSAL CONSIDERATIONS.

#### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Wear appropriate laboratory attire including lab coat, gloves and safety glasses. Nitrile gloves are recommended when handling lyophilized material. Avoid formation of dust and aerosols. Ensure adequate ventilation.

## 7.2 Conditions for safe storage, including any incompatibilities

Store at  $2 - 8^{\circ}$ C prior to and following reconstitution.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## Personal protective equipment

#### Eves

Wear safety goggles or glasses.

#### Skin

Handle with appropriate gloves. Wear nitrile gloves when handling the product in the lyophilized form. Wear appropriate laboratory clothing / lab coat.

## Respiratory protection

Use respirators and components tested and approved under appropriate government standards; or, ensure adequate ventilation using engineering controls, such as a biological safety cabinet.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance
b) Odor
c) Odor threshold
d) Form: solid; Color: white Data not available
d) Data not available

SDS for Product #156 Page 3 of 6

d) pH Data not available e) Melting point / freezing point Data not available Initial boiling point and boiling range Data not available f) g) Flash point Data not available h) Evaporation rate Data not available i) Flammability (solid, gas) Data not available Upper/Lower flammability or explosive limits j) Data not available k) Vapor pressure Data not available Vapor density Data not available I) m) Relative density Data not available n) Solubility(ies) Easily soluble in water o) Partition coefficient: n-octanol/water Data not available p) Auto-ignition temperature Data not available q) Decomposition temperature Data not available Viscosity Data not available r)

#### 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

No data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

No data available

## 11. TOXICOLOGY INFORMATION

#### 11.1 Information on toxicological effects

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

#### **Acute toxicity**

No data available

Inhalation: No data available Dermal: No data available Oral: No data available

### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

## Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is

SDS for Product #156 Page 4 of 6

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by OSHA.

## Reproductive toxicity

No data available

## Specific target organ toxicity - single exposure

No data available

### Specific target organ toxicity - repeated exposure

No data available

#### **Additional Information**

### Pasteurella Multocida Toxin:

Signs and Symptoms of Exposure

No data available

RTECS: HG4441500

LD<sub>50</sub> mice, 500 ng/kg ip; LD<sub>LO</sub> pig, 500 ng/kg iv

Toxicity Data Reference:

Cheville, NF & Rimler, RB, Vet. Pathol. 26:148, 1989.

Estimated lethal amount for a 100 lb (45.5 kg) human – without treatment or vaccinations – extrapolated from animal studies: 22.8 µg ip

### Sucrose:

Signs and Symptoms of Exposure

No data available.

RTECS: WN6500000

LD<sub>50</sub> rat, 29,700 mg/kg oral; LD<sub>50</sub> mice, 14,000 mg/kg ip.

### 12. ECOLOGICAL INFORMATION

Product is unlikely to cause a concern to the environment.

#### 13. DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with appropriate federal, state and local regulations or applicable governmental requirements.

### 14. TRANSPORT INFORMATION

**IATA** 

UN number: UN3462 Class: 6.1 Packing group: II

## 15. REGULATORY INFORMATION

### **OSHA Hazards**

Irritant

#### SARA

Not subject to reporting requirements and there are no Threshold Planning Quantities for this product.

### **WHMIS**

D3 Biohazardous Infectious Material

### **Safety Phrases**

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

\$36/37/39 – Wear suitable protective clothing, gloves and eye/face protection

### **Risk Phrases**

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

## California Prop. 65 Components

SDS for Product #156 Page 5 of 6

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

### 16. OTHER INFORMATION

## **NFPA Rating**

Health Hazard: 4
Fire Hazard: 0
Reactivity Hazard: 0

**HMIS Rating** 

Health Hazard: 4
Chronic Health Hazard: \*
Flammability: 0
Physical Hazard: 0

Version: 3.0 / Issued Date: 01/2019

CAUTION - Not fully tested. For research use only. Not for human use.

The preceding information is based on available data and is believed to be correct, but does not purport to be all inclusive and should be used as a guide in handling this material. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists. List Biological Laboratories, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

SDS for Product #156 Page 6 of 6